

HANDLING COLLISIONS DURING SYNCHRONIZATION OF DATA BETWEEN CLIENT AND SERVER COMPUTERS

Abstract of the Disclosure

Data stored on a server are synchronized with corresponding data on a plurality
5 of client computers. To facilitate synchronization of the data, the data for a class of
nodes on the server are provided with a version identifier (a serial number) that is
incremented each time the data are modified on the server. During synchronization, the
version identifier for the data stored on the client is transferred to the server, and the
nodes stored on the client are updated by downloading nodes modified on the server
10 since the last synchronization. Data on the client that have been modified are then
uploaded to the server. Collisions between nodes of the data that have been modified on
two different clients are detected, and a user is given an opportunity to resolve a collision.